

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/038505 A1

(51) International Patent Classification⁷: **G02B 26/12**

(21) International Application Number:
PCT/KR2004/002629

(22) International Filing Date: 14 October 2004 (14.10.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2003-0071920 15 October 2003 (15.10.2003) KR

(71) Applicant and

(72) Inventor: SONG, Tae-Sun [KR/KR]; 13/2, 248-108,
Gueui-dong, Kwangjin-ku, Seoul 143-200 (KR).

(74) Agent: YOU ME PATENT & LAW FIRM; Seolim Bldg.,
649-10, Yoksam-dong, Kangnam-Ku, Seoul 135-080 (KR).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

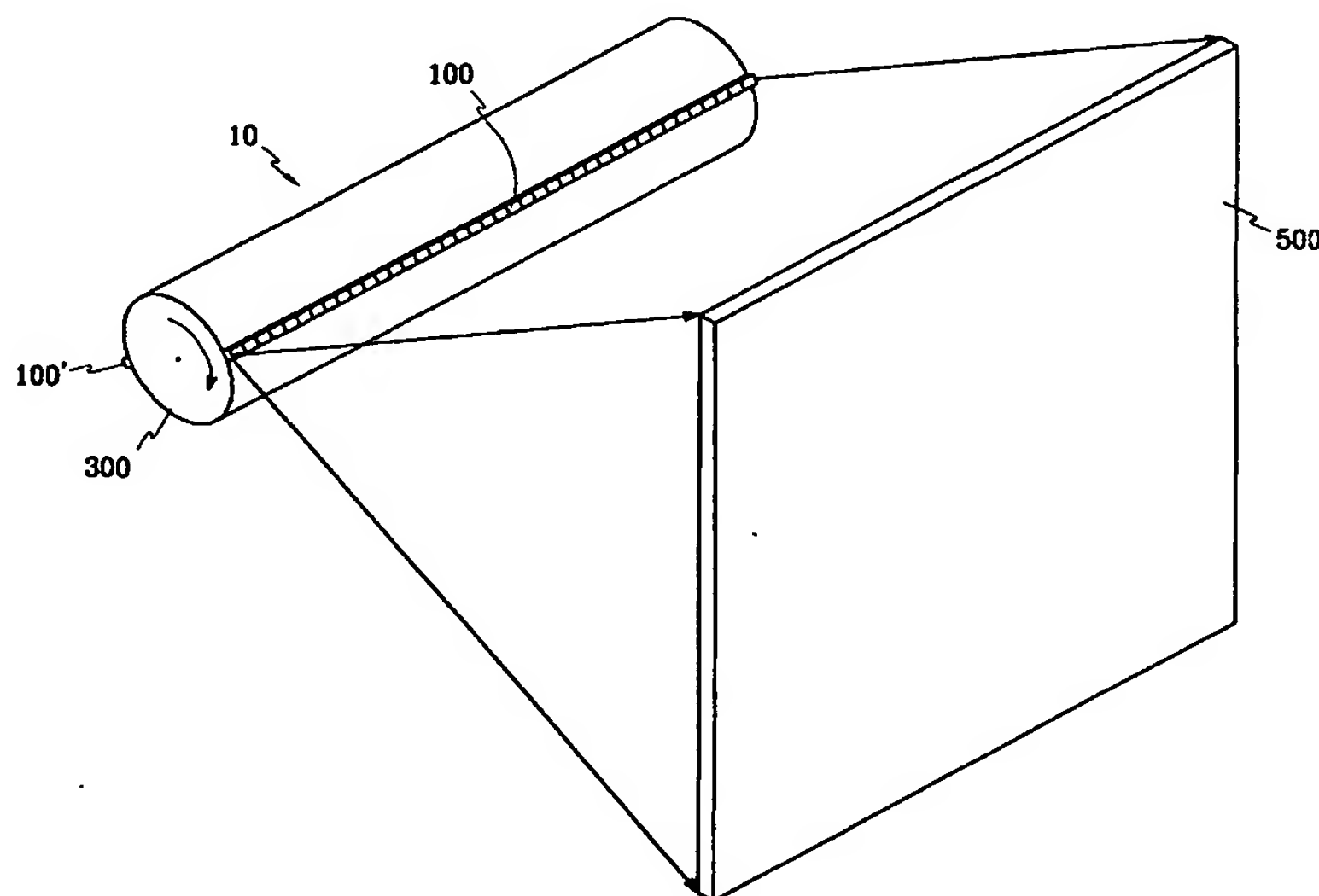
(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TWO DIMENSIONAL OPTICAL SCANNING APPARATUS AND IMAGE DISPLAY APPARATUS USING THE SAME



(57) Abstract: A two-dimensional optical scanning apparatus has a rotating body or a moving body that rotates endlessly. The apparatus has at least two linear light source units. The rotating body may be formed in a shape of a cylindrical drum. The moving body may have at least two cylindrical drums and an endless belt connected between the drums. Each linear light source unit is displaced on the rotating body or moving body to alternately project images with each other. The apparatus projects light in several directions so it is used in an image display apparatus with a plurality of screens.

WO 2005/038505 A1